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Version 7/03

APPLICATION FOR  
FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION: Application		2. DATE SUBMITTED 06/01/2007	Applicant Identifier F-45-E Amend 20
<input checked="" type="checkbox"/> Construction <input type="checkbox"/> Non-Construction		3. DATE RECEIVED BY STATE JUN 5 2007	State Application Identifier Exempt
<input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction		4. DATE RECEIVED BY FEDERAL AGENCY JUN 5 2007	Federal Identifier F-45-E-21, Am 0
5. APPLICANT INFORMATION			
Legal Name: S.D. Department of Game, Fish and Parks		Organizational Unit: Department: Game, Fish and Parks	
Organizational DUNS: 80-958-7702		Division: Wildlife	
Address: Street: 523 E. Capitol Ave.		Name and telephone number of person to be contacted on matters involving this application (give area code) Prefix: Mrs. First Name: Nora	
City: Pierre		Middle Name: Irene	
County: Hughes		Last Name: Kohlenberg	
State: South Dakota Zip Code: 57501-3182		Suffix:	
Country: United States of America		Email: nora.kohlenberg@state.sd.us	
6. EMPLOYER IDENTIFICATION NUMBER (EIN): 46-6000364		Phone Number (give area code): (605) 773-6228 Fax Number (give area code): (605) 773-6245	
8. TYPE OF APPLICATION: <input type="checkbox"/> New <input checked="" type="checkbox"/> Continuation <input checked="" type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es). (See back of form for description of letters.) A Other (specify) New 5-Year grant plan and obligate funds		7. TYPE OF APPLICANT: (See back of form for Application Types) A. State Other (specify)	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: 15-605 TITLE (Name of Program): Federal Aid in Sport Fish Restoration		9. NAME OF FEDERAL AGENCY: U.S. Department of Interior, Fish and Wildlife Service	
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): Statewide		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Aquatic Education Program New 5-year grant plan and obligate funds for segment F-45-E-21	
13. PROPOSED PROJECT Start Date: 07/01/2007 Ending Date: 06/30/2008		14. CONGRESSIONAL DISTRICTS OF: a. Applicant At Large b. Project Statewide	
15. ESTIMATED FUNDING: AE 9511 a. Federal \$ 126,375.00 b. Applicant \$ 42,125.00 c. State \$ d. Local \$ e. Other \$ f. Program Income \$ g. TOTAL \$ 168,500.00		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? a. Yes. <input type="checkbox"/> THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON 75% 25% DATE: b. No. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E. O. 12372 <input checked="" type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.		17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes" attach an explanation. <input checked="" type="checkbox"/> No	
a. Authorized Representative			
Prefix Mrs. First Name Nora		Middle Name Irene	
Last Name Kohlenberg		Suffix	
b. Title Federal Assistance Coordinator		c. Telephone Number (give area code) (605) 773-6228	
d. Signature of Authorized Representative <i>Nora L. Kohlenberg</i>		e. Date Signed 6/1/2007	

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# BUDGET NARRATIVE WORKSHEET

Grantee:		SD Department of Game, Fish and Parks			
Grant No:	F-45-E	Amendment No.	20		
FAIMS Grant Agreement Segment No:	F-45-E-21	Amendment No.	0		
Grant Title:	Aquatic Education Program				
Grant Agreement Period:	From: 7/1/2007	To: 6/30/2008	Grant Cost		
Federal Assistance Program (Click in cell, then click side drop-down)	Subactivity (AutoFill)	Grantee Share (AutoFill)	% (AutoFill)	Federal Share (AutoFill)	Total Cost
Aquatic Education	9511	\$ 42,125.00	25.00%	\$ 126,375.00	\$ 168,500.00
Total Cost		\$ 42,125.00		\$ 126,375.00	\$ 168,500.00
In-Kind Match Used					
Describe In-Kind Match					
YES/NO> No Amount>					
Estimated Program Income \$ -					
Method of Crediting Program Income: (check box)					
Deductive> Additive>					

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## SEGMENT SUMMARY

State: South Dakota  
Project: F-45-E-21  
Project Title: Aquatic Education Program

### Approved Activities

The following activities were included in F-45-E Amendment #20 to the Grant, the 5-year plan Proposal for this project.

### Total Costs

Study/Activity	Code	SFR	State's Match	Total Cost Estimate
Administrative	5500	\$1,500	\$500	\$2,000
Teacher Training	5501	\$7,875	\$2,625	\$10,500
Angler Ed. Programs	5502	\$27,750	\$9,250	\$37,000
Angler Ed. Special Populations	5502	\$750	\$250	\$1,000
Special Events	5502	\$9,375	\$3,125	\$12,500
Printed Materials	5503	\$18,750	\$6,250	\$25,000
Videos & A/V	5503	\$7,500	\$2,500	\$10,000
Facilities Maintenance	5504	\$11,625	\$3,875	\$15,500
Facilities Development	5504	\$41,250	\$13,750	\$55,000
<b>Total</b>		<b>\$126,375</b>	<b>\$42,125</b>	<b>\$168,500</b>

### Funding

The state's matching share will be provided with funds generated from the sale of hunting and fishing licenses or other non-federal funds. Indirect costs, on eligible expenses, will be recovered at the negotiated rate.

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## **PROGRAM NARRATIVE**

**STATE:** South Dakota  
**PROJECT:** F-45-E  
**AFA AMENDMENT:** 20  
**PROJECT TITLE:** Aquatic Education Program

### **NEED**

**Agency Mission:** "The South Dakota Department of Game, Fish and Parks, Wildlife Division (Division) will manage South Dakota's wildlife and fisheries resources and their associated habitats for their sustained and equitable use, and for the benefit, welfare, and enjoyment of the citizens of this state and its visitors."

Aquatic resource education programs and components are needed to help fulfill the Division's mission. The strategic goal of the Education Services section of the Division is "to develop in the people of South Dakota a deeper awareness, understanding and appreciation of our wildlife resources." The benefits of an informed and educated public are varied. Theoretically, people who participate in these Division programs and/or read and study the information provided will have a better understanding of aquatic ecosystems and issues. The Division may get them and/or keep them involved in angling, which will result in stable or increased license sales, provide an overall enrichment to their quality of life in South Dakota, and make them more knowledgeable citizens.

South Dakota residents under the age of 16 may fish without purchasing a license. The Division has not quantified the number of those youth who participate in legal, unlicensed fishing activities. However, we know from the number of requests for programs or clinics by scout leaders, school educators and others who coordinate various youth group activities that there is a high demand for basic instruction and development of fishing skills and fish species identification from those under the age of 16. The Division needs to establish programs that provide basic instruction in fishing skills in an effort to meet this demand.

During the next 5 years – and presumably beyond that – the primary target audience for GFP education programs will be school-aged children (ages 5-18). Fall enrollment statistics for the 2006-7 school year indicate over 120,000 students. This audience is readily identifiable and targeted. With the current emphasis on content standards and No Child Left Behind mandates, aligning GFP programs with this infrastructure will improve the quality, content, and marketability of such programs. A cursory review of state content standards revealed a list of over 40 science, math, and social studies standards than could be addressed by aquatic education programs. Certainly more

connections exist. These standards will provide guidance not only in what information to present, but also how to present it for the various age groups. New programs, materials, and exhibits will be designed with this audience in mind. Existing programs will be adjusted as feasible and practical. By focusing on this primary audience, GFP education efforts may be better integrated into schools, thus creating an informed constituency and possibly one that participates in fishing and other outdoor recreation. Other audiences will not be ignored as the information and skills taught will be applicable to them as well. Identifying a primary audience will provide GFP programs and staff with an identifiable focus.

## **EXPECTED RESULTS AND BENEFITS**

Users that are not only aware that South Dakota has unique aquatic resources are also aware of how and why these resources are managed.

This 5-year, aquatic education program will continue to build the constituency started in the previous 5-year Grant period that is increasingly aware of aquatic resources in South Dakota, and will develop active users of the aquatic resources.

## **OBJECTIVES & APPROACHES**

### **Grant Administration (5500)**

Staff time will be spent each year administering the grant, producing performance reports, compiling reports, etc.

### **Obj. 1) Aquatic Project WILD/Advanced Aquatic Project WILD (5501)**

Offer at least 15 aquatic Project WILD workshops per year, with at least 300 educators attending the workshops. At the end of an Aquatic Project WILD workshop or advanced workshop, each educator will be prepared to incorporate any of 48 activities found in the Aquatic WILD guide into their established classroom curricula.

#### *Approach A) Teacher Training*

##### **A-1 Aquatic Project WILD**

Project WILD is a statewide K-12 educator-training program. It uses basic school subjects such as science, math, social studies, language arts, and physical education as a springboard to teach students about aquatic wildlife and aquatic issues. Participating educators receive Aquatic Project WILD materials during a 6- or 15-hour workshop. Each workshop includes participation in facilitated activities, practice in team-teaching at least one activity, and distribution of many free teaching resource materials. Participants in the 15-hour workshops are eligible for South Dakota Department of Education recertification credit. Participants in these workshops are also often eligible to receive graduate credit.

#### **A-2 Advanced Aquatic Project WILD**

These workshops are offered statewide and provide WILD-trained educators opportunities to gain in-depth knowledge about a particular topic. Examples of topics are the Missouri River, fish and fish management in the Black Hills, wetlands, and the James River watershed. These workshops always offer graduate credit for the participants.

#### **A-3 Fishing Curriculum**

A fishing curriculum will be developed and made available to schools and other groups. The purpose of the curriculum will be to provide information and activities about fish, fish habitat, fishing, and fisheries management to teachers and students throughout the state. While the curriculum will be distributed upon request, training workshops will be held for teachers. Fishing equipment and supplies will be provided to a limited number of participating schools. This program will be modeled after the National Archery in the Schools program.

#### **Obj. II) Aquatic programs/clinics (5502)**

Offer or present at least 300 different aquatic programs or fishing-related sessions each year, reaching a minimum of 10,000 participants, excluding the State Fair. Upon completion of a fish identification program or clinic, each participant will have the basic skills to identify different species of fish and their preferred habitats. After completion of a basic fishing skills class, each participant will be able to tie at least two different types of knots, choose appropriate bait or lure for the preferred species, perform a basic cast and distinguish behavior and actions typically associated with and practiced by ethical anglers.

#### ***Approach B) Angler Education programs***

##### **B-1 K-12 school classes**

Fishing skills and aquatic ecology are being taught more frequently in school districts as part of both the physical education and science curricula. Some educators use fishing field trips as rewards for academic achievement, or as part of a "Natural High" day. Our aquatic education program supports the efforts of educators by offering programs and tours for school classes at all of the fisheries facilities in the state, loaning fishing equipment, maintaining and distributing a fish biology outreach kit, providing educational fact sheets to be used as references, and providing video or printed materials from our library of resources. We anticipate reaching over 2,000 students and educators annually. The result of these efforts will be students and educators who will have an increased knowledge of aquatic ecosystems, and who perceive fishing as an enjoyable outdoor pursuit.

##### **B-2 Facility education programs**

Due to past confusion over accurate coding, the educational programming expenses at our approved facilities (described under Objective IV) will be moved

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to this objective and code. Expenses for operation, development, and maintenance of the facilities will remain under 5504.

Programs at approved facilities include classes (fish, fishing, fish habitat, and fisheries management), hatchery tours, and other events held at the facilities.

#### B-3 Loaner fishing kits

A barrier to many groups being able to go fishing is lack of equipment. The aquatic education program is meeting this need through 5 fishing outreach kits (4 warm season kits and 1 ice fishing kit). The kits are checked out by group leaders, and can be kept for a period of up to 2 weeks. The kits are inventoried and equipment and supplies maintained after each use. Types of groups that have used the kits in the past are Boy Scouts, Girl Scouts, 4-H camps, senior citizen/nursing home groups, K-12 school classes, county sportsmen's clubs sponsoring youth fishing clinics and derbies, National Fishing Week event planners, and department employees giving fishing skills clinics. Regional staff fishing kits have been created and maintenance of these kits will be ongoing.

Content of the fishing kits will be adjusted to make the kits better suited for use in conjunction with the fishing curriculum described above.

Despite the fact that a Department person rarely accompanies the equipment, they are well used and scheduling during the summer months is quite hectic. By continuing this equipment loaner program and expanding its availability, we can help eliminate the barrier of no equipment, and have over 1,000 children experience fishing at least once per year in the next 5 years.

#### B-4 Fishing clinics

Many groups sponsor fishing clinics for children across the state and GFP is often asked to support them. We provide personnel for planning and support during the day of the event, printed materials, and fishing equipment, depending on the needs of the organizing group.

### *Approach C) Angler Education – Special Populations*

Angling is an outdoor activity that can be enjoyed by anyone of any age, skill level, or gender. However, the traditional angler in our state is a white male. GFP works in partnership with organizations that target populations other than white males, to increase the diversity and number of people who will enjoy fishing.

#### C-1 Becoming an Outdoors-Woman workshops

GFP sponsors this annual weekend for adult women. It follows the nationally recommended format of 1/3 of the classes relating to fishing and boating skills, 1/3 shooting and hunting, and 1/3 non-consumptive recreation. We host 100 women annually for a full weekend in the autumn. Ten to twelve sessions of 3.5 hours each are offered on fishing. Classes are limited to 12 per session. Aquatic education topics may include basic fishing skills, walleye

fishing, bass fishing, panfishing, fly fishing, fly tying, and fish cleaning and cooking, depending on where in the state the weekend is held. Each participant chooses up to a total of four sessions to attend during the workshop, allowing them to take more than one fishing or aquatic-related session. Only fisheries topic courses are funded under this grant. Other funded elements include: staff time to prepare and present part or all of the fisheries-related sessions and associated per diem costs, mileage, meals, and lodging for those volunteer instructors who present fisheries sessions.

#### *Approach D) Special Events*

##### **D-1 State Fair display**

The SD State Fair is held in Huron from the end of August through Labor Day each year. GFP has a district office on the fairgrounds, and the office annex becomes the GFP display for the duration of the Fair. It includes a number of aquaria that support fish and other aquatic vertebrates. Department personnel give programs using the aquaria and other fishing equipment and materials. Fishing skills mini-clinics, fish anatomy quizzes, and fisheries management talks are examples of programs given. Aquatic Education materials for distribution during the programs and printing costs are charged to the Grant. Staff giving programs charge their time and travel to this program. Virtually everyone who attends the Fair stops by the area at least one time; we have contact with approximately 200,000 people annually.

##### **D-2 Water Festivals**

Water Festivals are special events for 4th graders in the geographic areas of Sioux Falls, Brookings, Aberdeen, and Pierre. Sioux Falls hosts a 2-day event, and the other communities each host a 1-day event. Participating 4th grade classes attend 7 to 8 sessions during their day at the Festival. GFP personnel serve as session presenters and assist in organizing the Festivals in their home communities. Costs to be charged to the Grant include the staff time to prepare and present activities on wetlands as they relate to fisheries, hatcheries, and fish management, printing of hand-out materials associated with these activities, purchase of materials needed to conduct the activities, and staff travel and per diem. On average, nearly 7,000 youngsters are addressed, annually. Only activities relating to fish, fisheries management, and fishing are funded by this grant. Matching funds come from the state budget.

##### **D-3 Outdoor Expo**

South Dakota's first outdoor Expo will be in May 2008 (FY08). This event will include educational programming, displays, etc. devoted to outdoor recreation and conservation. Expenses for staff time, materials, equipment, etc. for aquatic education programming and displays will be coded to the grant. The anticipated attendance for the first Expo is 10,000 individuals, with attendance increasing in subsequent years.

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#### D-4 Youth Conservation Camp

Since 1963, GFP has partnered with the South Dakota Wildlife Federation (SDWF) to operate the annual Youth Conservation Camp (YCC). This camp is offered every year at Camp Bob Marshall near Custer. High school students from across the state attend. Traditionally, GFP coordinates the class offerings while SDWF chapters make the arrangements to enroll and transport the kids to camp. Elective classes for the week include shotgun shooting, waterfowl identification & hunting, lake fishing, fish netting & lake survey, crappie fishing, mountain biking, fly tying, and other outdoor recreation and management topics.

Costs to be charged to the Grant include staff time to prepare and present activities on fisheries, hatcheries, and fish management, purchase of materials needed to conduct the activities, and staff travel and per diem.

### Obj. III) Dissemination of General Information (5503)

Develop, update and distribute at least 20 different aquatic resource education materials to interested people. Materials may consist of printed materials and publications, and video productions or other A/V projects. After reading or viewing one or more of these materials, each person will have increased knowledge of that particular topic. Examples of topics include fisheries management and fish biology, fish species identification, aquatic habitat, how fishing rules/regulations relate/apply to fish management, locations of public fishing waters and access sites, and fisheries management facilities.

#### Approach E) Printed Materials and Publications

##### E-1 Fish Identification guides and posters

GFP currently has Fishes of South Dakota identification booklets and "Fishes of the Dakotas" posters that are distributed to anglers, educators, school children and the general public. These publications allow us to disseminate information about the species that live in the waters of the state, their ranges, and natural history information about them. Sufficient quantities will be maintained to fill the ongoing needs of the public. An appropriate credit-line/ SFR logo crediting the Grant Program will be included on all published materials. We will also develop one new poster and one new booklet in this 5-year plan.

##### E-2 Aquatic Nuisance Species materials

As in a number of states, South Dakota is experiencing an invasion of aquatic nuisance species (ANS). Species such as zebra mussels, Asian carp, curly pondweed, and others are becoming established in the state. Education efforts to date have been very minimal. During this grant cycle, an educational curriculum, poster, and trading card packet will be developed. Other publications may also be purchased or developed. Distribution will be upon request to teachers, tournament organizers, anglers, and others.

### E-3 Fishing handbooks

A fishing handbook is produced annually and distributed at all license agents and GFP offices across the state, plus many visitor and information centers that cater to travelers. Approximately 350,000 handbooks are created annually. Information includes regulations and Aquatic Education topics. At least 8 pages of the 40-page handbook are devoted to aquatic education. Topics covered are determined by current fisheries management needs, but may include how to measure fish length, species identification tips, exotic species identification and management strategies, and how the fisheries program budget is generated and allocated. This is one of the best tools available to the Department to disseminate general educational information to every licensed angler in the state. Only those pages that contain aquatic education content are cost shared in this project. An appropriate credit-line/ SFR logo crediting the Grant Program will be included on all published materials.

### E-4 Fact sheets and other teaching tools

We will continue to produce fact sheets on life histories of aquatic vertebrates, invertebrates and plants, plus various aquatic habitats and the relationship of each of these topics to fisheries. Such publications, as appropriate and feasible, will be made available on the GFP web site. An appropriate credit-line/ SFR logo crediting the Grant Program will be included on all published materials.

### E-5 Fish Trading Cards

In FY01, we produced sets of fish trading cards for distribution to students and children at GFP events throughout the state. Approximately 40,000 5-card packs and 3,000 25-card packs were distributed. The sets of cards (25 per set) have a full color photo on the front, and a range map and natural history information on the back. These cards were extremely popular and have been reprinted once during the past 5 years. The cards will be reprinted again to maintain supplies. Trading cards will sport the SFR logo in recognition to the Grant Program.

### E-6 Magazine Articles

GFP produces the *Conservation Digest*, a bi-monthly full color magazine for subscribers. Every issue contains several articles on aquatic resources and habitats. These articles permit the agency to explain and promote current, critical aspects of fisheries management, ethical behaviors we want anglers to practice, aquatic education efforts we wish to draw attention to, or promote the intrinsic values of angling. We plan to print 12 aquatic education articles per year. An appropriate credit-line/ SFR logo crediting the Grant Program will be included on all published materials.

### E-7 Fishing Access Publications

The *Black Hills Stream Classification and Access Guide* was first printed in FY00. This publication helped fill the need identified by anglers for information

## E-8 Facilities brochures and miscellaneous publications

At various times through out the year, fisheries staff need to get an informational/educational message to anglers. In the past, pamphlets have been on topics like: *Missouri River Fisheries: Most Frequently Asked Questions*, *Only the Nose Knows: 10 Years of Coded Wire Tagging*, and *Lake Oahe Walleye Fishing Forecast for 1998*. Distribution is through locations where anglers congregate: bait stores, license agents, tournament check-ins, and with creel clerks. The typical technique for this type of message is a simple 3-fold brochure or a poster. They will be created and printed on an as needed basis. An appropriate credit-line/ SFR logo crediting the Grant Program will be included on all published materials.

## F-1 Web Site

To expand these opportunities, new publications, activities, and fact sheets shall be created and made available on the web site. Existing publications will also be made available as feasible. A multi-state online activity for kids will be developed in FY08.

Some of our aquatic education facilities use video and slide shows to share the fundamental messages about the facility. These productions need to be duplicated and updated periodically with new slides and scripts.

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#### **Obj IV) Facilities (5504)**

To operate, maintain, and develop the Division's 10 permanent interpretive and educational facilities and 2 portable aquarium trailers that deliver an aquatic education message. The general public uses these facilities, as do those interested in fishing, school students, and educators. After a visit to one of these facilities, or after viewing a portable aquarium trailer, the visitor will have increased knowledge of that particular location and its role in the statewide system of fisheries management.

#### ***Approach G) Maintenance of Aquatic Education Facilities***

Each of the facilities has its own needs for maintenance and developments. Based on past confusion over coding, only direct operations, maintenance, and development of these facilities will be coded to 5504. Any educational programs, tours, etc. will be coded to 5502. The operations sub-code has been removed to streamline coding and project administration. Items previously coded under operations have been moved to Maintenance (5504) or to Aquatic Programs/Clinics (5502) as appropriate.

#### **Cleghorn Springs State Fish Hatchery/Visitor Center, Rapid City**

This hatchery raises trout and salmon to be stocked in various public fishing waters. Typically, stocking is done in waters where natural reproduction does not occur or is too low to provide suitable numbers of fish for anglers. The Visitor Center on the site is the part of the facility that is considered fundable by the aquatic education grant. The Visitor Center is open and staffed during the summer months. Exhibits demonstrate an interactive watershed model, provide fishing tips, and describe spawning activities and fisheries research. Short video presentations are available on topics such as hatchery operations, fly fishing, South Dakota salmon and stream rehabilitation. Summer programs and hatchery tours are also offered.

Maintenance - Routine maintenance includes carpet cleaning, bathroom tile cleaning, trimming of shrubbery and plantings, repair/replacement of lights, light bulbs, fans, and exhibit parts.

Development - In FY08, structural updates and improvements will be made. In FY09, the interior exhibits relating to fisheries management will be re-designed and updated

#### **McNenny State Fish Hatchery, Spearfish**

McNenny Hatchery raises trout and salmon for stocking the state's public fishing waters. This site is also home to the South Dakota State Fish Laboratory. Among other uses, the lab is used to screen fish for disease-causing agents. The site includes the following educational opportunities: viewing trout and salmon, an aquarium, a nature trail and 3 small lakes where fishing skills can be taught by staff. McNenny uses a Federally run facility, DC Booth Hatchery in the town of Spearfish, as an auxiliary production site and provides Booth with fish for the public to view.

Maintenance - Routine maintenance for this site includes aquarium maintenance and nature trail maintenance.

Development - Interpretive signage will be developed for display at the DC Booth Hatchery. As this site is used by McNenny as a production site and the site hosts a significant number of visitors, signage will be located there to show GFP's involvement in trout management and stocking in the state. Signs will also inform the visitors how GFP uses the facility for its stocking purposes.

#### **Blue Dog Lake State Fish Hatchery, Waubay**

Blue Dog is the state's only facility producing cool-water and warm-water fish including: northern pike, walleye, yellow perch, largemouth and smallmouth bass, bluegill and crappie. Some cold-water species are raised during the winter. The educational opportunities at this hatchery include an aquarium and interpretative displays in the hatchery building and two nature trails.

Maintenance - Routine maintenance at this site includes aquarium maintenance and upkeep by Hatchery staff, interpretive exhibit maintenance and upkeep by staff.

Development - Exhibit updates and replacements are planned in FY09 and Fy12.

#### **American Creek Satellite Spawning Station, Chamberlain**

This station serves as the headquarters for fisheries staff involved in management and research on Lakes Francis Case and Lewis and Clark, two of the four mainstem reservoirs on the Missouri River within South Dakota. The station includes a research lab, holding tanks for fish, storage space and offices. Several species of fish are managed at this station, including walleye, sauger, largemouth and smallmouth bass, white bass, paddlefish and channel catfish. The educational opportunities at this facility are school programs and tours during the paddlefish spawning season, and community programs conducted by the staff.

Maintenance - Routine maintenance needs at this facility include cleaning of the floors in the public tour area, and the tabletop display that is used by staff when giving programs about the work of the facility.

Developments - Exhibit updates and replacements are planned in FY11.

#### **Whitlock Bay Satellite Spawning Station, Gettysburg**

The primary function of the Whitlock Bay Spawning Station is to complete the artificial spawning of Chinook salmon and rainbow trout from Lake Oahe. The station opens for about six weeks in the spring for the trout spawn and again for six weeks in the fall for the salmon operations. Educational components of this facility include tours given to school groups and the public during spawning operations, and outdoor interpretive exhibits about the life cycle of the salmon and trout.

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Maintenance - Routine maintenance at this facility includes repainting and repairing the exterior interpretive exhibits each year prior to heavy public visitation at the site.

Developments - Exhibit updates and replacements are planned in FY11.

#### **Missouri River Fisheries Center, Ft. Pierre**

This facility is the headquarters for fisheries staff involved in management and research on Lake Oahe and Lake Sharpe, two of the four mainstem reservoirs on the Missouri River. The educational components of this site include the hands-on interpretive exhibits in the lobby of the building, plus school tours and public programs given by the staff.

Maintenance - Routine maintenance for this facility includes maintenance of the interpretive exhibits.

Developments - Exhibit updates and replacements are planned in FY10.

#### **The Outdoor Campus, Sioux Falls**

The Outdoor Campus opened its doors during the summer of 1997. The popularity of the facility skyrocketed and it is now a model for other outdoor education facilities in the state. This site is designed to provide basic hands-on instruction for a variety of outdoor skills, including fishing, boating and other water-related activities. The indoor exhibit area includes a 3,000 gallon aquarium and stream exhibit, which addresses several aquatic resource education issues. There is also a wetland diorama and interpretive display. On-site programming consists of seasonal classes offered on various topics. Examples include introductory fishing skills, fish identification, cleaning and cooking of fish and wetlands ecology. These classes are designed for beginners of any age. An on-site fishing pond is under construction right now and an on-site oxbow also provides opportunities to explore additional wetland and aquatic issues.

Maintenance - Routine maintenance at this facility includes a contract to clean and maintain the 3,000 gallon aquarium in the indoor exhibit, upkeep of the fishing related indoor exhibits, upkeep and maintenance of the on-site fishing pond and the wetland area near the old oxbow. The Director of the facility uses aquatic education time to work with the aquarium contractor.

Developments - Exhibit updates and replacements are planned in FY10.

#### **The Outdoor Campus, Rapid City**

GFP plans to create a new outdoor education facility in Rapid City, based on the highly successful Outdoor Campus in Sioux Falls. This site will be designed to provide basic hands-on instruction for a variety of outdoor skills, including fishing, boating and other water-related activities. There will be an indoor exhibit area which will showcase the ecosystems, species, and habitats of the Black hills, in addition to the associated recreation opportunities. On-site programming will consist of

seasonal classes offered on various topics. Examples include introductory fishing skills, fish identification, cleaning and cooking of fish and stream ecology. These classes are designed for beginners of any age. Groundbreaking for this facility is expected to take place in FY08 or FY09.

Maintenance – Routine maintenance of this facility will include upkeep of any fish or fishing exhibits.

Developments – Development of this new facility may begin in FY08. However, the bulk of the facility construction is expected in FY09.

### **State Fair display**

During the 5-day run of the State Fair, the free standing fish pond and small aquaria are filled with fish and aquatic wildlife native to South Dakota. Fifty percent of the interpretive displays and photographs in the exhibit area deal with fish habitat, fish management and fish identification.

Maintenance - Routine maintenance for this site includes preparing the aquaria and free standing pond for the run of the Fair, and repairing photos or interpretive displays. This also includes daily upkeep of the living organisms during the run of the fair and keeping the pumps and hardware for the pond and aquaria in good working order.

Developments – Based on the age and condition of the current displays, the exhibits will be updated in FY08 and FY09.

### **Portable aquaria trailers**

These trailers are displayed upon request for special events like community fairs and celebrations, the Sioux Empire Fair, Water Festivals, or at locations without permanent or easily accessible aquariums. The 2 trailers are kept in Sioux Falls and Rapid City.

Maintenance - Routine maintenance on the trailers include repair of chillers, electrical wiring maintenance, repair/replacement of cosmetic parts like carpet pieces, plastic plants, and tubing, all chemicals, thermometers, and educational posters and signs. This also includes staff time to locate, net and transport fish, haul, set-up, stock, and do daily maintenance on the trailer while it is in use. It also includes take down and clean-up time, plus preparing the trailer for winter storage and spring use.

Developments – A third portable aquaria will be built in FY08. This will be housed at the GFP District office in Waubay.

## LOCATIONS

The Division of Wildlife is sponsoring aquatic education efforts at multiple locations across the state, at all fisheries related facilities, and through partnerships that can assist us in equitable distribution of the efforts.

1. **Cleghorn Springs State Fish Hatchery** – cold water hatchery for trout and salmon, along Rapid Creek in Rapid City (4725 Rimrock Hwy, Rapid City, SD 57702).
2. **McNenny State Fish Hatchery** – cold water hatchery for trout and salmon, near the Wyoming border on Interstate 90 (19619 Trout Loop, Spearfish, SD 57783).
3. **Blue Dog State Fish Hatchery** – cool and warm water hatchery for a variety of species, on the shore of Blue Dog Lake in northeastern South Dakota (RR1 Box 22A, Waubay, SD 57273).
4. **American Creek satellite Spawning Station** – spawning and imprinting station on the Missouri River in Chamberlain (1125 N. Josephine, Chamberlain, SD 57325).
5. **Whitlocks Bay satellite Spawning Station** – spawning and imprinting station for salmon along the Missouri River 18 miles west of Gettysburg.
6. **Missouri River Fisheries Center** – this is the office for the Missouri reservoir research fisheries staff. The lobby is designed to house permanent exhibits about habitat, fisheries research, and fishing access along the reservoirs (20461 Highway 1806., Ft. Pierre, SD 57532).
7. **The Outdoor Campus, Sioux Falls** – this facility is the Region 3 Wildlife Division office, plus an outdoor skills and nature center for southeastern South Dakota. It has permanent indoor and outdoor exhibits, changeable indoor and outdoor exhibits, and extensive programming to teach outdoor skills (4500 S. Oxbow, Sioux Falls, SD 57106).
8. **The Outdoor Campus, Rapid City** – this planned facility will house the Region 1 Wildlife Division office as well as an outdoor skills and nature center for western South Dakota. It will contain permanent indoor and outdoor exhibits and extensive programming to teach outdoor skills, conservation biology, and fish & wildlife management (address/location to be determined).
9. **State Fairgrounds** – this facility includes permanent exhibits, a viewing pond, and 3 aquaria, all focusing on the aquatic and terrestrial natural resources of the state. The Wildlife Division District Office is adjacent to this site (895 3<sup>rd</sup> St. SW, Huron, SD 57350).

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11. **Portable Aquaria Trailers** – two portable aquaria trailers are maintained in the state, one in Sioux Falls (housed at The Outdoor Campus) and one in Rapid City (housed at the Wildlife Division Region 1 office). Each trailer has two 200 gallon tanks, which are set up to handle either cold water fish species or cool water/warm water species. The trailers are used at fairs, trade shows, and other public forums where Division personnel teach about fish and fisheries management.

**ESTIMATED COSTS BY APPROACH**

Grant Administration (5500)	Year 1 (FY08)	Year 2 (FY09)	Year 3 (FY10)	Year 4 (FY11)	Year 5 (FY12)
<b>Subtotal</b>	<b>\$2,000</b>	<b>\$2,000</b>	<b>\$2,000</b>	<b>\$2,000</b>	<b>\$2,000</b>

Teacher Training (5501)	Year 1 (FY08)	Year 2 (FY09)	Year 3 (FY10)	Year 4 (FY11)	Year 5 (FY12)
Basic Project WILD	\$5,000	\$2,000	\$5,000	\$2,000	\$5,000
Advanced Project WILD	\$500	\$500	\$500	\$500	\$500
Fishing Curriculum	\$5,000	\$2,000	\$3,000	\$3,000	\$3,000
<b>Subtotal</b>	<b>\$10,500</b>	<b>\$4,500</b>	<b>\$8,500</b>	<b>\$5,500</b>	<b>\$8,500</b>

Angler Ed. Programs (5502)	Year 1 (FY08)	Year 2 (FY09)	Year 3 (FY10)	Year 4 (FY11)	Year 5 (FY12)
K-12 School classes	\$10,000	\$10,000	\$15,000	\$15,000	\$15,000
Facilities Programming	\$20,000	\$25,000	\$30,000	\$30,000	\$40,000
Loaner Fishing Kits	\$2,000	\$1,000	\$1,000	\$2,000	\$2,000
Fishing Clinics	\$5,000	\$5,000	\$6,000	\$7,000	\$8,000
<b>Subtotal</b>	<b>\$37,000</b>	<b>\$41,000</b>	<b>\$52,000</b>	<b>\$54,000</b>	<b>\$65,000</b>

Angler Ed. Special Populations (5502)	Year 1 (FY08)	Year 2 (FY09)	Year 3 (FY10)	Year 4 (FY11)	Year 5 (FY12)
Becoming An Outdoors-Woman	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
<b>Subtotal</b>	<b>\$1,000</b>	<b>\$1,000</b>	<b>\$1,000</b>	<b>\$1,000</b>	<b>\$1,000</b>

<b>Special Events (5502)</b>	<b>Year 1 (FY08)</b>	<b>Year 2 (FY09)</b>	<b>Year 3 (FY10)</b>	<b>Year 4 (FY11)</b>	<b>Year 5 (FY12)</b>
State Fair	\$5,000	\$7,000	\$7,000	\$8,000	\$8,000
Water Festivals	\$2,000	\$2,000	\$3,000	\$4,000	\$4,000
Outdoor Expo	\$5,000	\$7,000	\$7,000	\$8,000	\$8,000
Youth Conservation Camp	\$500	\$500	\$500	\$500	\$500
<b>Subtotal</b>	<b>\$12,500</b>	<b>\$16,500</b>	<b>\$17,500</b>	<b>\$20,500</b>	<b>\$20,500</b>

<b>Printed Materials (5503)</b>	<b>Year 1 (FY08)</b>	<b>Year 2 (FY09)</b>	<b>Year 3 (FY10)</b>	<b>Year 4 (FY11)</b>	<b>Year 5 (FY12)</b>
Fish ID Guides & Posters	\$10,000	\$15,000	\$10,000	\$10,000	\$15,000
Aquatic Nuisance Species Materials Regulation Handbooks	\$5,000	\$1,000	\$1,000	\$1,000	\$1,000
Factsheets & Other Teaching Tools	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Aquatic Trading Cards	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Magazine Articles	\$0	\$10,000	\$0	\$0	\$10,000
Fishing Access Publications	\$500	\$500	\$500	\$500	\$500
Facilities Brochures	\$4,000	\$0	\$0	\$1,000	\$0
<b>Subtotal</b>	<b>\$25,000</b>	<b>\$32,000</b>	<b>\$17,000</b>	<b>\$18,000</b>	<b>\$32,000</b>

<b>Videos &amp; A/V productions (5503)</b>	<b>Year 1 (FY08)</b>	<b>Year 2 (FY09)</b>	<b>Year 3 (FY10)</b>	<b>Year 4 (FY11)</b>	<b>Year 5 (FY12)</b>
Web Site	\$10,000	\$0	\$0	\$0	\$0
Other A/V productions	\$0	\$0	\$0	\$0	\$0
<b>Subtotal</b>	<b>\$10,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

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<b>Facilities</b>	<b>Year 1 (FY08)</b>	<b>Year 2 (FY09)</b>	<b>Year 3 (FY10)</b>	<b>Year 4 (FY11)</b>	<b>Year 5 (FY12)</b>
<b>Maintenance (5504)</b>					
Cleghorn Springs Visitor Center	\$5,000	\$5,000	\$7,000	\$8,000	\$8,000
McNenny Hatchery	\$1,000	\$2,000	\$2,000	\$2,000	\$2,000
Blue Dog Lake Hatchery	\$1,000	\$2,000	\$2,000	\$2,000	\$2,000
American Creek	\$500	\$500	\$1,000	\$1,000	\$1,000
Whitlocks Bay	\$500	\$500	\$1,000	\$1,000	\$1,000
Missouri River Fisheries Center	\$500	\$500	\$1,000	\$1,000	\$1,000
The Outdoor Campus, Sioux Falls	\$5,000	\$5,000	\$7,000	\$8,000	\$8,000
The Outdoor Campus, Rapid City	\$0	\$5,000	\$7,000	\$8,000	\$8,000
The State Fair	\$1,000	\$2,000	\$2,000	\$2,000	\$2,000
Portable Aquaria	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
<b>Subtotal</b>	<b>\$15,500</b>	<b>\$23,500</b>	<b>\$31,000</b>	<b>\$34,000</b>	<b>\$34,000</b>

<b>Facilities</b>	<b>Year 1 (FY08)</b>	<b>Year 2 (FY09)</b>	<b>Year 3 (FY10)</b>	<b>Year 4 (FY11)</b>	<b>Year 5 (FY12)</b>
<b>Development (5504)</b>					
Cleghorn Springs Visitor Center	\$20,000	\$30,000	\$0	\$0	\$10,000
McNenny Hatchery	\$5,000	\$0	\$0	\$10,000	\$0
Blue Dog Lake Hatchery	\$0	\$1,000	\$0	\$0	\$5,000
American Creek	\$0	\$0	\$0	\$1,000	\$0
Whitlocks Bay	\$0	\$0	\$0	\$1,000	\$0
Missouri River Fisheries Center	\$0	\$0	\$1,000	\$0	\$0
The Outdoor Campus, Sioux Falls	\$0	\$0	\$5,000	\$0	\$0
The Outdoor Campus, Rapid City	\$10,000	\$40,000	\$0	\$0	\$10,000
The State Fair	\$5,000	\$5,000	\$0	\$0	\$0
Portable Aquaria	\$15,000	\$0	\$0	\$0	\$0
<b>Subtotal</b>	<b>\$55,000</b>	<b>\$76,000</b>	<b>\$6,000</b>	<b>\$12,000</b>	<b>\$25,000</b>

### **TOTAL EXPENDITURES BY YEAR**

	Year 1 (FY08)	Year 2 (FY09)	Year 3 (FY10)	Year 4 (FY11)	Year 5 (FY12)
Annual total for all Approaches (550x)	\$168,500	\$196,500	\$135,000	\$147,000	\$188,000

### **LAND CONTROL**

These areas are either owned in fee title or under agreement by the Department of Game, Fish and Parks.

### **RELATION TO OTHER FEDERAL PROJECTS**

None of these projects is directly related to any other federal aid project. Some of these areas have been partially developed by and many are operated and maintained under project F-38-DB. Dam repair has been accomplished under F-43-D at Lake Vermillion. Some of the land-based improvements at some of these sites have been funded by Land & Water Conservation Funds but are not maintained with SFR funds. Some of these sites have received Coast Guard Recreational Boating Safety Fund assistance.

### **PRIME/UNIQUE FARMLANDS**

This proposal is an education program that does not involve the disturbance or modification of any soils. Future developments that may involve soil disturbance would be added by individual Amendment. Through staff review of Natural Resource Conservation Service county soil maps and reference to their publication, "Important Farmlands of South Dakota", and through consultation with the Natural Resource Conservation Service where applicable, it has been determined that none of these developments are located in, or have a detrimental effect on areas with prime or unique farmlands.

### **FLOODPLAINS/WETLANDS**

This proposal is an education program that does not involve the disturbance or modification of any wetlands or floodplains.

Therefore, these projects will not effect wetlands, wetland values or the amount or volume of floodwaters.

## ***ENDANGERED SPECIES***

### Species considered

Whooping crane, interior least tern, piping plover, black-footed ferret, black-tailed prairie dog, gray wolf, American burying beetle, Topeka shiner, bald eagle, Mountain plover, scaleshell mussel, and pallid sturgeon.

### Narrative

These strategies are education projects that will not have any adverse affect on any endangered species.

## ***ENVIRONMENTAL ASSESSMENT***

This proposal involves the construction of new, or the addition of small structures or improvements, including structures and improvements for the restoration of wetland, riparian, instream, or native habitats, which result in no or only minor changes in the use of the affected local area. Therefore, these projects qualify as a categorical exclusion from the NEPA process as described in the Federal Register, Vol. 62, No. 11, page 2381, Sections 1.4(A)2 and (B)2, dated January 16, 1997.

The exceptions to the application of these categorical exclusions were considered by the Department of Game, Fish and Parks and were found to be not applicable to this project.

This proposal does not have significant adverse effects on public health or safety.

This proposal does not have significant adverse effects on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds (Executive Order 13186); and other ecologically significant or critical areas under Federal ownership or jurisdiction.

This proposal does not have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA Section 102(2)(E)].

This proposal does not have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks.

This proposal does not have a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects.

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This proposal does not have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects.

This proposal does not have significant adverse effects on properties listed or eligible for listing on the National Register of Historic Places as determined by either the bureau or office, the State Historic Preservation Officer, the Tribal Historic Preservation Officer, the Advisory Council on Historic Preservation, or a consulting party under 36 CFR 800.

This proposal does not have significant adverse effects on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant adverse effects on designated Critical Habitat for these species.

This proposal does not have the possibility of violating a Federal law, or a State, local, or tribal law or requirement imposed for the protection of the environment.

This proposal does not have the possibility for a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898).

This proposal does not have the possibility to limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007).

This proposal does not have the possibility to significantly contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112).

## **HISTORICAL/CULTURAL RESOURCES**

This educational Grant Proposal does not involve the disturbance of previously undisturbed soil. As referenced in Attachment "A" of the Programmatic Agreement with the South Dakota State Historic Preservation Office - Project Activities Not Requiring Review By SHPO or Council, with the SHPO, Number 23. Aquatic and Wildlife Resource Education - Classroom and outdoor education activities that do not involve soil disturbance on previously undisturbed areas. Final signature 03/19/02.

## **ENVIRONMENTAL JUSTICE (Executive Order 12898)**

These educational projects occur at locations around the state without prejudice for location. There are no resident measurable minority populations near the proposed projects. These projects will have no impact whatsoever on minority populations.

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***INVASIVE SPECIES (Executive Order 13122)***

These projects are educational in nature and will not promote the introduction or spread of invasive species.

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